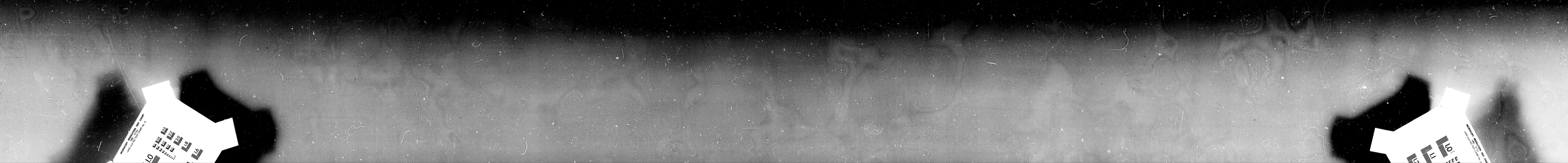

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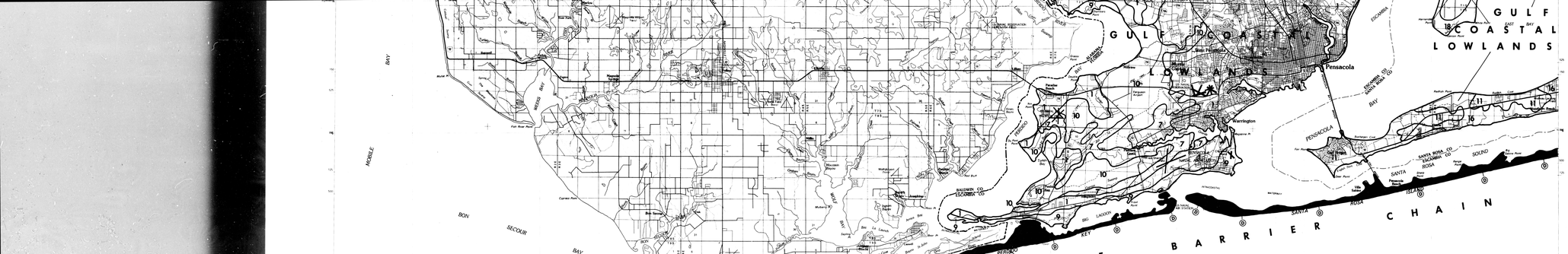
FWS/OBS-82/47.1

MAP C2

Pensacola

FLORIDA ECOLOGICAL ATLAS

SOILS AND LANDFORMS



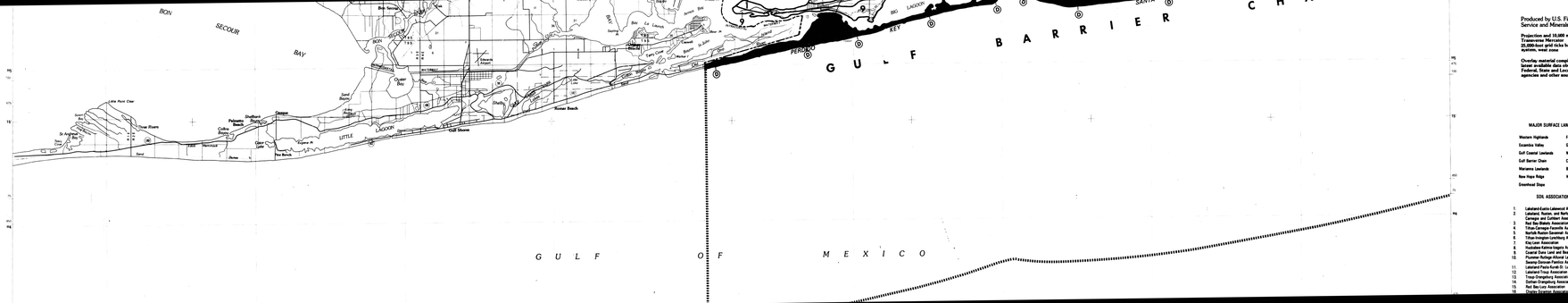
TOPICAL MAPS IN THIS ATLAS:

A. BIOLOGICAL RESOURCES
B. SOCIOECONOMIC FEATURES
C. SOILS AND LANDFORMS
D. OIL, GAS AND MINERALS
E. HYDROLOGY AND CLIMATOLOGY

1984

Produced by U.S. Fish and Wildlife Service and Minerals Management Service

Projection and 10,000 meter grid, zone 17, Universal Transverse Mercator
10,000-foot grid ticks based on Florida coordinate



Produced by U.S. Fish and Wildlife Service and Minerals Management Service

Projection and 10,000 meter grid, zone 17: Universal Transverse Mercator
10,000-foot grid ticks based on Florida coordinate system, west zone

Overlay material compiled in 1983 from latest available data obtained from Federal, State and Local government agencies and other sources.

MAJOR SURFACE LANDFORMS

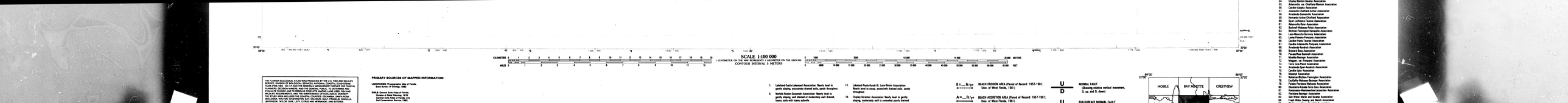
Western Highlands	Fountain Slope
Escambia Valley	Grand Ridge
Gulf Coastal Lowlands	Northern Highlands
Gulf Barrier Chain	Coastal Swamp
Marianna Lowlands	Bradentville Ridge
New Hope Ridge	Western Valley
Greenhead Slope	

SOIL ASSOCIATIONS

1. Lakeland-Eustis-Lakewood Association
2. Lakeland, Norfolk, and Norfolk-Sunswept, Loamy Substratum Association
3. Red Bay-Wadley Association
4. Tifton-Carnegie-Faceville Association
5. Norfolk-Ruston-Savannah Association
6. Tallahatta-Troup-Orangeburg Association
7. Kita Lake Association
8. Ruston-Kalmia-Iregulo Association
9. Coastal Dune Land and Beach-Tidal Marsh Association
10. Bibb-Chastain-Meadowbrook-Water Swamp-Donovan-Pamlico Association
11. Lakeland-Pura Kenh-St. Lucie Remin Association
12. Lakeland-Troup Association
13. Troup-Orangeburg Association
14. Red Bay-Lucy-Ruston Association
15. Red Bay-Cuba-Ruston Association
16. Chipley-Scranton Association

G U L F O F M E X I C O

1. Nahuak Hualon-Lonestar Association
2. Nahuak Hualon-Lonestar Association
3. Kitty Leah Association
4. Hedadsee-Kalma-Izagora Association
5. Coastal Dune Land and Beach Trail Marsh Association
6. Plummer-Refugio Alluvial Land-Fresh Water
7. Plummer-Refugio Alluvial Association
8. Lakeland Paola-Kendall-St. Lucie Reefal Association
9. Lakeland Troup Association
10. Troup-Orangeburg Association
11. Bethan-Orangeburg Association
12. Bethan Association
13. Chipley-Scranton Association
14. Johns Leaf Association
15. Tait Water Marsh and Swamp Complex Association
16. Troup-Lucy Creek Association
17. Bethan-Orangeburg Tifton Association
18. Lakeland-Faceville Association
19. Chipley-Albany-Leon Association
20. Lakeland-Albany-Orangeburg Association
21. Tifton-Faceville-Orangeville Association
22. Norfolk-Ruston-Goldsboro Association
23. Tifton-Faceville-Marlboro Association
24. Lakeland-Cuthbert-Dothana Association
25. Lakeland-Albany-Orangeburg Association
26. Goldsboro-Lynchburg-Rains Association
27. Kureb-Resota-Mandarin Association
28. Lakeland-Foxworth-Centenary Association
29. Lenfield-Albany-Dothan Association
30. Lakeland-Albany-Orangeburg Association
31. Portsburg-Leon-Refugio Association
32. Plummer-Pelham Association
33. Refugio-Kitchen-Pulaxey Association
34. Chipley-Albany-Dothan Association
35. Lakeland-Albany-Orangeburg-Dixie Association
36. Dothan-Blanton Association
37. Bethan-Dothan-Lucy Association
38. Dothan-Orangeburg Association
39. Lakeland-Albany-Orangeburg Association
40. Lenfield-Albany-Dothan Association
41. Dothan-Orangeburg-Red Bay Association
42. Alpin-Blanton-Eunola Association
43. Orangeburg-Lucy-Bethan Association
44. Chipley-Albany-Dothan Association
45. Lenfield-Albany-Dothan Association
46. Brevard, var. Wainman-Elbin Association
47. Meranes, var. Fields, Var. Capeland, Var. Association
48. Tait Water Marsh and Swamp Complex Association
49. Tait Water Marsh and Swamp-Coastal Dunes Association
50. Alpin-Blanton Association
51. Chipley-Blanton-Swamp Association
52. Adamsville, var. Chatfield-Blanton Association
53. Tait Water Marsh Association
54. Jamesville-Chatfield-Archer Association
55. Arredondo-Gainesville Association
56. Hernando-Archer-Chatfield Association
57. Izarr-Lochloosa-Tavares Association
58. Bethan-Orangeburg Association
59. Bushnell-Hokeana-Felda Association
60. Bichton-Flemington-Kanapaha Association
61. Leon-Muscotte-Surrency Association



THE FLORIDA ECOLOGICAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES, NATIONAL COASTAL ECOSYSTEMS TEAM (FWS-1000 - ID 17) AND THE MINERALS MANAGEMENT SERVICE FOR COASTAL AREAS OF FLORIDA UNDER INTERAGENCY AGREEMENT NO. 14-12-0001-30252. IT FURNISHES EVIDENCE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE RESOURCES, AND OTHER NATURAL RESOURCES IN COASTAL AREAS. THE STUDY AREA INCLUDES THE COASTAL COUNTIES ESCAMBIA, SANTA ROSA, OKALOOSA, WALTON, BAY, GULF, FRANKLIN, WAKULLA, JEFFERSON, TAYLOR, DIXIE, LEVY, CITRUS AND HERNANDO, AND EXTENDS OFFSHORE APPROXIMATELY 12 MILES. THERE IS NO ATTEMPT, IN THE DESIGN OF THE ATLAS, TO DELINEATE OR DEFINE STATE OR FEDERAL OFFSHORE JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT BODIES.

THE MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAIN INFORMATION AT DIFFERENT SCALES AND LEVELS OF DETAIL AND FEATURES, THE USER SHOULD NOT RELY ON FEATURES SHOWN FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

PRIMARY SOURCES OF MAPPED INFORMATION:

LANDFORMS: Photographic Map of Florida, State Bureau of Geology, 1980.

SOILS: General Soils Atlas of Florida, Division of Soils Planning, 1975; Soil Survey Reports, 1:24,000 U.S. Soil Conservation Service, 1982.

ACTIVE DUNES: Black and White Aerial Photographs, 1:80,000 Scale, Mark Ford Aerial Photography, 1981; Topographic Maps, 1:24,000 Scale, U.S. Geological Survey, various dates.

GEOLOGIC FAULTS: Map of Escambia and Santa Rosa Counties, Florida, and Adjacent Parts of the Coastal Plain of the Florida Panhandle, Pavlicec, State Bureau of Geology, 1985.

FOR COMPLETE REFERENCES SEE MAP NARRATIVE

1. Lakeland-Eustis-Lakewood Association: Nearly level to gently sloping, excessively drained soils, sandy throughout.
5. Norfolk-Ruston-Dunewood Association: Nearly level to gently sloping, well drained or moderately well drained, loamy soils with loamy subsoils.
7. Clay-Leon Association: Nearly level, somewhat poorly drained sandy soils, sandy throughout or with weakly cemented sandy subsoil.
8. Coastal Dune Land and Beach-Tidal Marsh Association: Nearly level, sandy soils and poorly drained soils subject to frequent flooding by tidal waters; and gently sloping, sandy soils not subject to flooding by tidal waters.
10. Plummer-Refuge-Allanhal Land-Fresh Water-Swamp Duckner-Pamlico Association: Nearly level, poorly drained soils with a thick surface layer overlying a loamy subsoil and very poorly drained soils that are sandy throughout.
11. Lakeland-Ponta Kurab-St. Lucie-Remic Association: Nearly level to steep, excessively drained soils, sandy throughout.
16. Chipley-Goreano Association: Nearly level to gently sloping, moderately well to somewhat poorly drained sandy soils.
18. Salt Water Marsh-Sand-Dreyo Association: Nearly level, very poorly drained soils subject to frequent flooding by tidal waters.

E = ___ ft/yr — BEACH EROSION AREA (Period of Record: 1957-1981; Unin. of West Florida, 1981)

A = ___ ft/yr — BEACH ACCRETION AREA (Period of Record: 1957-1981; Univ. of West Florida, 1981)

GULF BARRIER ISLAND

ACTIVE DUNE AREA

U / D — NORMAL FAULT (Showing relative vertical movement, U. up, and D. down)

U / D — SUB-SURFACE NORMAL FAULT (Showing relative vertical movement, U. up, and D. down)

STUDY AREA BOUNDARY

Water

Inland (County)

Inland (State)

1. Chipley Sterlon Swamp Association
2. Chipley-Dothan-Fuquay Association Association
3. Carrabelle-Apalachicola Association
4. Jonesville-Chiefland-Archer Association
5. Arredondo-Gainesville Association
6. Fernandina-Archer-Chiefland Association
7. Lake City-Ocilla-Pelham Association
8. Adamsville-Dade Association
9. Bushnell-Hidalgo-Felda Association
10. Sinclair-Farmington-Eustaphe Association
11. Leon-Wacissa-Pamlico Association
12. Lake Mizzentine-Pompano Association
13. Candler-Pedro Tavares Association
14. Candler-Adamsville-Pompano Association
15. Myakka-Basinger-Pineda Association
16. Broward-Boca Association
17. Fenwar-Ben Sudnell Association
18. Myakka-Basinger Association
19. Waggett, var Pompano Association
20. Ft. Meade-Tavares Association
21. Arredondo-Sparr-Kendrick Association
22. Candler Lake Association
23. Wauchi Association
24. Nobleton-Sinclair-Tarrington Association
25. Pomona-Immokalee-Felda Association
26. Pavilion-Floridana-Wabasso Association
27. Okeelanta-Anclote-Terra Ceia Association
28. Hontoon-Manatee-Okeelanta-Anclote Association
29. Floridana-Basinger Association
30. Salt Water Marsh and Swamp Association
31. Fresh Water Swamp and Marsh Association
32. Bichner-Lochloosa-Kendrick Association
33. Myakka-Sanford Association
34. Myakka-Pomello Association

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